

Curriculum Vitae of Matthew James Thurtell

General Information

Name: Matthew James THURTELL

Date of Birth: 9th February 1976

Address: Apartment 105
2536 Overlook Road
Cleveland Heights OH 44106
UNITED STATES OF AMERICA

Electronic Mail: mj.thurtell@gmail.com

Qualifications

Tertiary and Vocational

2003 – 2007 **Fellowship of Royal Australasian College of Physicians**
Written Exam: Pass on first attempt (Not Graded), 2005
Clinical Exam: Pass on first attempt (Not Graded), 2005
Royal Australasian College of Physicians

1999 – 2005 **Master of Science in Medicine**
(conferred 2007) Department of Medicine, University of Sydney

1994 – 2000 **Bachelor of Medicine, Bachelor of Surgery (Honours I)**
(conferred 2001) University of Sydney

1997 **Bachelor of Science (Medical) (Honours I)**
(conferred 1998) Department of Physiology, University of Sydney

Secondary

1993 **Higher School Certificate**
Tertiary Entrance Rank: 99.65
Mount Carmel High School, Varroville

Other

2006 – 2007 **United States of America ECFMG Certificate**
Part 1: Pass (238 [3-digit score], 96 [2-digit score])
Part 2 (CK): Pass (258 [3-digit score], 99 [2-digit score])
Part 2 (CS): Pass (Not Graded)
Educational Commission for Foreign Medical Graduates

1997 **Associate in Music, Australia**
Major in Piano Performance
Australian Music Examinations Board

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Clinical Experience

- 2007 – **Neuro-Ophthalmology Fellow**
University Hospitals Case Medical Center, Cleveland OH
Supervisors: Prof. RJ Leigh and Prof. RL Tomsak
- 2005 – 2006 **Neurology Advanced Trainee**
Royal Prince Alfred Hospital, Sydney
Supervisors: Prof. GM Halmagyi and Prof. JD Pollard
Concord Repatriation General Hospital, Sydney
Supervisor: Prof. AJ Corbett
- 2003 – 2004 **Basic Physician (Internal Medicine) Trainee**
Royal Prince Alfred Hospital, Sydney
- 2002 **Resident Medical Officer**
Royal Prince Alfred Hospital, Sydney
- 2001 **Intern**
John Hunter Hospital, Newcastle

Research Experience

Local

- 1999 – 2005 Project: Kinematics of eye movements in cerebellar atrophy
Department of Neurology, Royal Prince Alfred Hospital
Supervisor: Prof. GM Halmagyi
- 1997 Project: Eye position-dependence in the aVOR
Department of Neurology, Royal Prince Alfred Hospital
Supervisors: Prof. GM Halmagyi and Prof. AE Sefton

Overseas

- 12/2000 – 1/2001 Project: Modeling saccadic eye movements
Department of Computer and Information Science
Brooklyn College of CUNY, New York, USA
Supervisor: Prof. T Raphan
- 11/1999 – 2/2000 Project: Head, body and arm movements during locomotion
Department of Neurology
Mount Sinai School of Medicine, New York, USA
Supervisors: Prof. T Raphan and Prof. B Cohen
- 7/1998 and 12/1998 Project: Modeling eye position-dependence in the aVOR
Department of Computer and Information Science
Brooklyn College of CUNY, New York, USA
Supervisor: Prof. T Raphan

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Publications

Journal Publications

Thurtell MJ, Halmagyi GM. Complete ophthalmoplegia: an unusual sign of bilateral paramedian midbrain-thalamic infarction. *Stroke* (In press).

Weber KP, **Thurtell MJ**, Halmagyi GM. Convergence spasm associated with midbrain compression by cerebral aneurysm. *Neurology* (In press).

Thurtell MJ, Besser M, Halmagyi GM. Pituitary apoplexy causing isolated blindness after cardiac bypass surgery. *Arch Ophthalmol* (In press).

Thurtell MJ, Akdal G, Magnussen JS, Halmagyi GM. A 93 year old man thought to have Parkinson's disease. *J Clin Neurosci* (In press).

Leigh RJ, **Thurtell MJ**. Reply. *Ann Neurol* 2007 (In press).

Akdal G, **Thurtell MJ**, Halmagyi GM. Isolated lateropulsion in acute lateral medullary infarction. *Arch Neurol* 2007; 64: 1542-1543.

Thurtell MJ, Besser M, Halmagyi GM. Anterior clinoid mucocele causing acute monocular blindness. *Clin Experiment Ophthalmol* 2007; 35: 675-676.

Thurtell MJ, Tomsak RL, Leigh RJ. Disorders of saccades. *Curr Neurol Neurosci Rep* 2007; 7: 407-416.

Leigh RJ, **Thurtell MJ**. Vestibular areflexia: under the radar. *Ann Neurol* 2007; 61: 499-500.

Thurtell MJ, Keed AB, Yan M, Gottlieb T, Spies JM, Halmagyi GM. Tuberculous cranial pachymeningitis. *Neurology* 2007; 68: 298-300.

Thurtell MJ, Sharp KL, Spies JM, Halmagyi GM. Isolated sixth cranial nerve palsy in preeclampsia. *J Neuroophthalmol* 2006; 26: 296-298.

Black RA, Halmagyi GM, **Thurtell MJ**, Todd MJ, Curthoys IS. The active head-impulse test in unilateral peripheral vestibulopathy. *Arch Neurol* 2005; 62: 290-293.

Halmagyi GM, Black RA, **Thurtell MJ**, Curthoys IS. The human horizontal vestibulo-ocular reflex in response to active and passive head impulses after unilateral vestibular deafferentation. *Ann NY Acad Sci* 2003; 1004: 325-336.

Thurtell MJ, Kunin M, Raphan T. Role of muscle pulleys in producing eye position-dependence in the angular vestibuloocular reflex: a model-based study. *J Neurophysiol* 2000; 84: 639-650.

Thurtell MJ, Black RA, Halmagyi GM, Curthoys IS, Aw ST. Vertical eye position-dependence of the human vestibuloocular reflex during passive and active yaw head rotations. *J Neurophysiol* 1999; 81: 2415-2428.

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Black RA, Halmagyi GM, Curthoys IS, **Thurtell MJ**, Brizuela AE. Unilateral vestibular deafferentation produces no long-term effects on human active eye-head coordination. *Exp Brain Res* 1998; 122: 362-366.

Book Chapters

Halmagyi GM, **Thurtell MJ**. Central eye movement disorders. *In*: Albert DM, Miller JW, Azar DT, Blodi BA (Eds). *Albert and Jakobiec's principles and practice of ophthalmology*, 3rd Ed (In press). WB Saunders: Philadelphia, USA.

Halmagyi GM, **Thurtell MJ**, Curthoys IS. Vertigo: clinical syndromes. *In*: Gleason, M (Ed). *Scott-Brown's otorhinolaryngology, head and neck surgery*, 2nd Ed (In press). Hodder Arnold: London, UK.

Theses

Thurtell MJ. Effect of eye position on the three-dimensional kinematics of saccadic and vestibular-evoked eye movements. (MScMed Thesis). University of Sydney: Sydney, Australia, 2005. <http://hdl.handle.net/2123/1665>

Thurtell MJ. Effect of eye position on the human angular vestibulo-ocular reflex. (BSc(Med)(Hons) Thesis). University of Sydney: Sydney, Australia, 1997.

Abstracts

Thurtell MJ, Raphan T, Black RA, Todd MJ, Leigh RJ, Halmagyi GM. Three-dimensional kinematics of saccadic eye movements in humans with cerebellar degeneration. (Poster: Conference to honor Jean Büttner-Ennever, London, 3-5 December 2007)

Thurtell MJ, Raphan T, Black RA, Todd MJ, Leigh RJ, Halmagyi GM. Three-dimensional kinematics of saccadic eye movements in humans with cerebellar degeneration. (Platform Presentation: American Neurological Association Eye Movement Meeting, Washington DC, 7 October 2007)

Reddel SW, Cole RN, **Thurtell MJ**, Phillips WD. The agrin-MuSK pathway as the second messenger at the neuromuscular junction. (Platform presentation: Australian and New Zealand Association of Neurologists 12th Clinical Neurophysiology Workshop, Southport, 30 September – 3 October 2007)

Parker GD, **Thurtell MJ**, Wilkinson M, Dunne V, Halmagyi GM. Management of idiopathic intracranial hypertension with stenting of transverse cerebral venous sinus stenoses: a case series. (Platform presentation: Neuro-Ophthalmology Society of Australia 23rd Annual Clinical and Scientific Meeting, Brisbane, 29-30 August 2007)

Thurtell MJ, Sharp KL, Ho PJ, Gibson J, Davies L, Spies JM. Leukoencephalopathy following intrathecal methotrexate. (Poster: Australian and New Zealand Association of Neurologists Annual Scientific Meeting, Uluru, 21-25 May 2007)

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Thurtell MJ, Parker GD, Halmagyi GM. Management of idiopathic intracranial hypertension with stenting of transverse cerebral venous sinus stenoses: a case series. (Platform presentation: American Academy of Neurology 59th Annual Meeting, Boston, 28 April – 5 May 2007)

Thurtell MJ, Halmagyi GM. Complete internal and external ophthalmoplegia due to bilateral paramedian midbrain-thalamic infarcts. (Poster: North American Neuro-Ophthalmology Society 33rd Annual Meeting, Snowbird, 10-15 February 2007)

Thurtell MJ, Halmagyi GM. Acute monocular blindness due to mucocele of the anterior clinoid process. (Poster: North American Neuro-Ophthalmology Society 33rd Annual Meeting, Snowbird, 10-15 February 2007)

Thurtell MJ, Halmagyi GM. A young woman with migraine, dizziness, and “dancing eyes”. [A case of congenital nystagmus.] (Case presentation; Neuro-Otology Society of Australia 16th Annual Meeting, Sydney, 4-5 November 2006)

Thurtell MJ, Halmagyi GM. “Frozen eyes” in late pregnancy. [A case of complete internal and external ophthalmoplegia following bilateral paramedian midbrain-thalamic infarcts.] (Case presentation; Neuro-Ophthalmology Society of Australia 22nd Annual Clinical and Scientific Meeting, Adelaide, 14-15 September 2006)

Thurtell MJ, Parmar J, Nicholson GA, Reddel SW. MuSK seropositive and seronegative autoimmune myasthenia gravis in Australasia. (Platform presentation; Australian Association of Neurologists Annual Scientific Meeting, Canberra, 1-5 May 2006)

Thurtell MJ, Halmagyi GM. Blind after bypass. [A case of pituitary apoplexy following coronary artery bypass grafting.] (Case presentation; Neuro-Ophthalmology Society of Australia 21st Annual Clinical and Scientific Meeting, Sydney, 3-4 November 2005)

Thurtell MJ, Halmagyi GM. Blindness and ophthalmoplegia. [A case of invasive fungal sinusitis following systemic chemotherapy for leukaemia.] (Case presentation; Neuro-Ophthalmology Society of Australia 21st Annual Clinical and Scientific Meeting, Sydney, 3-4 November 2005)

Black RA, **Thurtell MJ**, Halmagyi GM, Todd MJ, Curthoys IS. The horizontal VOR with active and passive head impulses after unilateral vestibular deafferentation. (Platform presentation; 22nd Bárány Society Meeting, Seattle, 26-29 October 2002)

Thurtell MJ, Black RA, Raphan T, Todd MJ, Halmagyi GM. Three-dimensional kinematics of saccadic eye movements in humans with cerebellar atrophy. (Platform presentation; Neuro-Otology Society of Australia 11th Annual Meeting, Sydney, 20-21 October 2001)

Black RA, **Thurtell MJ**, Halmagyi GM, Curthoys IS. The human horizontal vestibulo-ocular reflex in response to active and passive head impulses after unilateral vestibular deafferentation. (Platform presentation; Neuro-Otology Society of Australia 11th Annual Meeting, Sydney, 20-21 October 2001)

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Thurtell MJ, Raphan T, Kunin M, Black RA, Halmagyi GM. How mathematical models can predict anatomy and physiology: rectus muscle pulleys and vestibular mechanisms. (Poster; Australian Association of Neurologists Golden Jubilee Scientific Meeting, Melbourne, 15-19 May 2000)

Thurtell MJ, Black RA, Raphan T, Kunin M, Halmagyi GM. Role of muscle pulleys in producing eye position-dependence during high velocity head rotations. Soc Neurosci Abstr 1999; 25: 1649. (Poster; Society for Neuroscience Annual Meeting, Miami Beach, 23-28 October 1999)

Black RA, **Thurtell MJ**, Halmagyi GM, Curthoys IS, Gilchrist DP. Characteristics of corrective eye movements made in response to active and passive head impulses in subjects with vestibular loss. Soc Neurosci Abstr 1999; 25: 659. (Poster; Society for Neuroscience Annual Meeting, Miami Beach, 23-28 October 1999)

Thurtell MJ, Raphan T, Black RA. Rectus muscle pulleys and their role in producing eye position-dependence in the vestibulo-ocular reflex. (Platform presentation; Neuro-Otology Society of Australia 9th Annual Meeting, Sydney, 13-14 November 1999)

Black RA, **Thurtell MJ**, Halmagyi GM, Curthoys IS. Unilateral vestibular deafferentation (uVD) produces no long-term effects on human active eye-head coordination. (Platform presentation; Neuro-Otology Society of Australia 9th Annual Meeting, Sydney, 13-14 November 1999)

Thurtell MJ, Black RA, Curthoys IS, Migliaccio AA, Halmagyi GM. Effect of vertical eye position on the human VOR in response to passive and active high acceleration yaw head rotations. Soc Neurosci Abstr 1998; 24: 1658. (Poster; Society for Neuroscience Annual Meeting, Los Angeles, 7-12 November 1998)

Black RA, **Thurtell MJ**, Halmagyi GM, Curthoys IS. Responses to active and passive high acceleration yaw head rotations in subjects with vestibular loss. Soc Neurosci Abstr 1998; 24: 1657. (Poster; Society for Neuroscience Annual Meeting, Los Angeles, 7-12 November 1998)

Scholarships and Awards

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| 2007 | i. American Academy of Neurology Annual Meeting Resident Research Travel Scholarship |
| 2005 | i. Neuro-Ophthalmology Society of Australia Prize for Best Trainee Presentation |
| 1999 | i. Sydney Tapping Bequest Scholarship for Option Term
ii. Royal Australian College of Ophthalmology Prize for Ophthalmology Term
iii. Cedric Swanton Memorial Prize for Psychiatry Term |
| 1997 | i. Faculty of Medicine Scholarship for BSc(Med)
ii. J.G. Hunter Research Fellowship for BSc(Med) |

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- 1996 i. Australian Medical Association Scholarship in Medicine
- 1995 i. J.I. Hunter Prize for Classical and Research Anatomy
- 1994 i. Wests' Sports Foundation Scholarship

Professional Affiliations and Activities

- Member Australian Medical Association
 Sydney University Medical Society
- Trainee Member American Academy of Neurology
 Australian and New Zealand Association of Neurologists
 Royal Australasian College of Physicians
- Reviewer Experimental Brain Research
 Investigative Ophthalmology and Visual Science
 Journal of Neuro-Ophthalmology
 Journal of Neurophysiology